



a promoter operably linked to a fusion gene encoding a major histocompatibility complex (MHC) targeting sequence, and two or more heterologous peptide epitopes. The MHC targeting sequence may be a class I targeting sequence, which directs an MHC class I epitope to a cytosolic pathway or to the endoplasmic reticulum, or an MHC class II targeting sequence, which directs extracellular antigens to enter the endocytic pathway to be processed into antigen peptides for presentation on MHC class II molecules. The heterologous epitopes may comprise either helper T lymphocyte (HTL) epitopes, or a cytotoxic T lymphocyte (CTL) epitope and a universal HTL epitope such as a pan DR epitope (PADRE). The vectors are useful for stimulating an immune response in vivo, as well as for use in assaying the human immunogenicity of a human T cell peptide epitope in vivo in a non-human mammal. They provide a nucleic acid vaccine for enhancing immunity against infectious pathogens, such as viruses (e.g., HIV, hepatitis B (HBV) and hepatitis C (HCV)), bacteria, protozoa (e.g., Plasmodium falciparum, the cause of malaria) and also tumour cells and autoimmune diseases. Universal MHC class II epitopes are advantageously combined with other MHC class I and class II epitopes to increase the number of cells that are activated in response to a given antigen and provide a broader population coverage of MHC-reactive alleles. (Updated on 06 AUG 2003 to correct OS field.)

Sequence 10 AA;

Query	Score	DB	Length
Qy	100.0%	3	10
Best Local Similarity	100.0%	0.0024	
Matches	0	0	
Indels	0	0	
Gaps	0	0	

DB: peptide; 10 AA.

Db: 1 QAFTFSPTYK 10  
Db: 1 QAFTFSPTYK 10

RESULT 2

ID AAM99222 standard; peptide; 10 AA.

XX

AC AAM99222;

XX DT 07-DEC-2001 (first entry)

XX DE Vaccine related MHC ligand peptide SEQ ID NO:325

XX Glutamic acid; Glutamine; vaccine; major histocompatibility complex; MHC; immunomodulator; anti-allergic; endocrine; neuroprotectant; virucidal; bactericidal; antiparasitic; fungicidal; cyrostatic; medicine; pharmaceutical; immune disorder; immune deficiency; autoimmune; hypersensitivity; allergy; graft rejection; infection; hormonal disorder; central nervous system disease; cancer; melanoma; anti-melanoma vaccine; human immunodeficiency virus.

XX Hepatitis B virus.

XX WO200170772-A2.

XX PD 27-SEP-2001.

XX (FABR ) FABRE MEDICAMENT SA PIERRE.

XX PI Klinguer Hamour C, Corvai N, Beck A, Goetsch L;

XX XX DR 2001-611470/70.

XX PR 23-MAR-2000; 20000FR-00003711.

XX PA PA (EPIM-) EPIMMUNE INC.

XX PA (SETT/) SETTE A.

XX PA 08-SEP-2000; 2000WO-US024802.

XX PR 08-SEP-2000; 2000WO-US024802.

XX DR WPI: 2002-643192/69.

XX PA Vaccine composition for treating or preventing hepatitis B virus (HBV)

XX PR PT infection, and/or for stimulating an immune response to HBV, comprises a

XX PT HBV peptide epitope.

PS Example 4; Page 214; 228pp; English.

XX The present invention relates to a composition comprising at least one hepatitis B virus epitope. This can be used in the production of a

XX CC hepatitis B virus epitope. This can be used in the production of a

XX PS vaccine for use in preventing or treating hepatitis B virus infection.

CC The present invention describes a pharmaceutical compound (I) that contains an N-terminal glutamic acid (Glu) or glutamine (Gln) residue in the form of an addition salt with a strong, physiologically acceptable acid (II). Also described are: (a) a pharmaceutical composition containing at least one (I); (b) a vaccine containing at least one (I) where this is a major histocompatibility complex (MHC) ligand (Ia); (c) a method for in vitro diagnosis of diseases associated with the presence of (Ia); (d) a kit for method (c) that includes a (Ia); and (e) a process for preparing (I). (II) has immunomodulator, endocrine, anti-allergic, neuroprotectant, virucidal, bactericidal, antiparasitic, fungicidal and cyrostatic activities. (I) are useful in human or veterinary medicine, in pharmaceutical compositions (for treating immune disorders, e.g. immune deficiency, autoimmune states, hypersensitivity, allergy, graft refection, infection, hormonal disorders and central nervous system diseases), also, where (I) is a MHC ligand (Ia), in vaccines for treatment or prevention of: (i) viral, bacterial, parasitic or fungal infections; or (ii) of cancers. A particular application is in anti-melanoma vaccines. (I) are also useful for in vitro diagnosis of diseases associated with interactions between MHC and (I), e.g. melanoma and human immunodeficiency virus infection. AAM98898 to AAM99592 represent peptides which can be used in pharmaceutical compounds from the present invention

SQ Sequence 10 AA;

Query	Match	Score	DB	Length
Qy	100.0%	54	10	
Best Local Similarity	100.0%	100.0%	DB 4;	
Matches	10	0	Indels 0;	
Indels	0	0	Gaps 0;	

DB: peptide; 10 AA.

Db: 1 QAFTFSPTYK 10  
Db: 1 QAFTFSPTYK 10

RESULT 3

ID ABJ10023

AC ABJ10023;

XX DT 14-NOV-2002 (first entry)

XX DB Hepatitis B virus epitope #3975.

XX Hepatitis B virus; HBV; epitope; vaccine; HBV infection; hepatitis; KW virucide; hepatotropic; anti-inflammatory.

XX Hepatitis B virus.

XX OS Hepatitis B virus.

XX PN WO200219986-A1.

PD 14-MAR-2002.

XX PA (EPIM-) EPIMMUNE INC.

XX PA (SETT/) SETTE A.

XX PF 08-SEP-2000; 2000WO-US024802.

XX PR 08-SEP-2000; 2000WO-US024802.

XX DR WPI: 2002-643192/69.

XX PA Vaccine composition for treating or preventing hepatitis B virus (HBV)

XX PR PT infection, and/or for stimulating an immune response to HBV, comprises a

XX PT HBV peptide epitope.

PS Example 4; Page 214; 228pp; English.

XX The present invention relates to a composition comprising at least one hepatitis B virus epitope. This can be used in the production of a

XX CC hepatitis B virus epitope. This can be used in the production of a

XX PS vaccine for use in preventing or treating hepatitis B virus infection.

CC The present sequence is a peptide described in the exemplification of the invention

XX Sequence 10 AA;

XX Query Match 100.0%; Score 54; DB 5; Length 10;

XX Best Local Similarity 100.0%; Pred. No. 0.0024;

XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Hepatitis B virus.

Qy 1 QAFTFSPTYK 10

Db 1 QAFTFSPTYK 10

RESULT 4

ABJ09911 ID ABJ09911 standard; peptide; 10 AA.

XX AC ABJ09911;

XX DT 14-NOV-2002 (first entry)

XX Hepatitis B virus epitope #3863.

XX Hepatitis B virus; HBV; epitope; vaccine; HBV infection; hepatitis;

XX KW virucide; hepatotropic; antiinflammatory.

XX Hepatitis B virus.

XX OS Hepatitis B virus.

XX PN WO200219986-A1.

XX PD 14-MAR-2002.

XX PF 08-SEP-2000; 2000WO-US024802.

XX PR 08-SEP-2000; 2000WO-US024802.

XX AC (EPIM-) EPIMMUNE INC.

XX PA (SETT/;) SETTE A.

XX PI Sette A, Sidney J, Southwood S, Vitiello MA, Livingstone BD;

XX PI Celis E, Kubo RT, Grey HM, Chestnut RW;

XX XX DR WPI; 2002-643192/69.

XX Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises a

XX HBV peptide epitope.

XX PT Vaccine composition relates to a composition comprising at least one

XX hepatitis B virus epitope. This can be used in the production of a

XX vaccine for use in preventing or treating hepatitis B virus infection.

XX The present sequence is a peptide described in the exemplification of the invention

XX XX SQ Sequence 10 AA;

XX Query Match 100.0%; Score 54; DB 5; Length 10;

XX Best Local Similarity 100.0%; Pred. No. 0.0024;

XX Matches 0; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Hepatitis B virus.

Qy 1 QAFTFSPTYK 10

Db 1 QAFTFSPTYK 10

RESULT 6

ABJ09660 ID ABJ09660 standard; peptide; 10 AA.

XX AC ABJ09660;

XX DT 14-NOV-2002 (first entry)

XX DE Hepatitis B virus epitope #3612.

XX KW Hepatitis B virus; HBV; epitope; vaccine; HBV infection; hepatitis;

XX KW virucide; hepatotropic; antiinflammatory.

XX OS Hepatitis B virus.

XX PN WO200219986-A1.

XX PD 14-MAR-2002.

XX PF 08-SEP-2000; 2000WO-US024802.

XX PR 08-SEP-2000; 2000WO-US024802.

XX PA (EPIM-) EPIMMUNE INC.

RESULT 5

ABJ10167 ID ABJ10167 standard; peptide; 10 AA.

XX AC ABJ10167;





Best Local Similarity 100.0%; Pred. No. 0.0024; Mismatches 0; Indels 0; Gaps 0;	KW XX	MHC class I; MHC class II; junctional epitope.
Qy 1 QAFIFSPYK 10	OS XX	Hepatitis B virus.
Db 1 QAFIFSPYK 10	PN XX	US2002119127-A1.
	PD XX	29-AUG-2002.
RESULT 12	XX	27-JUN-2001; 2001US-00894018.
ABJ06455 ID ABJ06455 standard; peptide; 10 AA.	PP XX	99US-0173390P.
XX	PR 28-DEC-1999; 2000WO-US035568.	
AC ABJ06455	PR 28-DEC-2000; 2000WO-US035568.	
XX	PR 16-APR-2001; 2001US-0284221P.	
DT 14-NOV-2002 (first entry)	XX	XX
XX Hepatitis B virus epitope #673.	PA (SETTE /) SETTE A.	PA (CHES /) CHESNUT R.
DE XX	PA (LIVI /) LIVINGSTON B D.	PA (LIVI /) LIVINGSTON B D.
XX Hepatitis B virus; HBV; epitope; vaccine; HBV infection; hepatitis; virucide; hepatotropic; antiinflammatory.	PA (BAKE /) BAKER D M.	PA (BAKE /) BAKER D M.
KW XX	PA (NEWM /) NEWMAN M J.	PA (NEWM /) NEWMAN M J.
KW XX	PA (BROW /) BROWN D H.	PA (BROW /) BROWN D H.
OS XX	PI Sette A, Chesnut R, Livingston BD, Baker DM, Newman MJ, Brown DH;	XX
XX	XX	XX
PN 200021986-A1.	DR WPI; 2003-615704/58.	XX
XX	XX	XX
PD 14-MAR-2002.	PT Designing multi-epitope construct having major histocompatibility complex class I and II epitope nucleic acids by selecting mixture of amino acid insertions at junctions of construct to minimize junctional epitopes.	PT Designing multi-epitope construct having major histocompatibility complex class I and II epitope nucleic acids by selecting mixture of amino acid insertions at junctions of construct to minimize junctional epitopes.
PP 08-SEP-2000; 2000WO-US024802	PT XX	PT XX
XX	PS Disclosure; Fig 19D; 78pp; English.	PS Disclosure; Fig 19D; 78pp; English.
PR 08-SEP-2000; 2000WO-US024802	XX	XX
XX	CC The invention relates to a method of designing multi-epitope constructs comprising major histocompatibility complex (MHC) Class I and II (CII) epitope nucleic acids (CII), involving sorting CEN, introducing flanking amino acid residue selected from specified amino acid residues given in specification at C+1 position of CEN, introducing amino acid spacer residues between two CEN, and selecting the constructs having less junctional epitopes. The method is useful for designing a multi-epitope construct having multiple epitope nucleic acid. The method avoids OR minimises the occurrence of junctional epitopes and maximises the immunogenicity and/or antigenicity of multi-epitope vaccines. The present sequence represents the amino acid sequence of an epitope present in a multi-epitope construct.	CC The invention relates to a method of designing multi-epitope constructs comprising major histocompatibility complex (MHC) Class I and II (CII) epitope nucleic acids (CII), involving sorting CEN, introducing flanking amino acid residue selected from specified amino acid residues given in specification at C+1 position of CEN, introducing amino acid spacer residues between two CEN, and selecting the constructs having less junctional epitopes. The method is useful for designing a multi-epitope construct having multiple epitope nucleic acid. The method avoids OR minimises the occurrence of junctional epitopes and maximises the immunogenicity and/or antigenicity of multi-epitope vaccines. The present sequence represents the amino acid sequence of an epitope present in a multi-epitope construct.
PA (EPIM-) EPIMMUNE INC.	CC Sequence 10 AA;	CC Sequence 10 AA;
(SETTE /) SETTE A.	CC	CC
XX	Query Match 100.0%; Score 54; DB 7; Length 10;	Query Match 100.0%; Score 54; DB 7; Length 10;
PI Sette A, Sidney J, Southwood S, Vitello MA, Livingston BD;	Best Local Similarity 100.0%; Pred. No. 0.0024; Mismatches 0; Indels 0; Gaps 0;	Best Local Similarity 100.0%; Pred. No. 0.0024; Mismatches 0; Indels 0; Gaps 0;
PI Celis E, Kubo RT, Grey HM, Chesnut RW;	Matches 10; Conservative 0; MisMatches 0; Indels 0; Gaps 0;	Matches 10; Conservative 0; MisMatches 0; Indels 0; Gaps 0;
XX	RESULT 14	RESULT 14
DR 2002-643192/69.	ADK39666	ADK39666
XX	Db	Db
PT Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises a HBV peptide epitope.	1 QAFIFSPYK 10	1 QAFIFSPYK 10
XX	XX	XX
PS Disclosure; Page 125; 228pp; English.	1 QAFIFSPYK 10	1 QAFIFSPYK 10
XX	XX	XX
CC The present invention relates to a composition comprising at least one hepatitis B virus epitope. This can be used in the production of a vaccine for use in preventing or treating hepatitis B virus infection.	DE Hepatitis B virus (HBV) epitope #2534.	DE Hepatitis B virus (HBV) epitope #2534.
CC The present sequence is a peptide described in the exemplification of the invention	KW HBV; cytotoxic T-cell response; immunogenic activity;	KW HBV; cytotoxic T-cell response; immunogenic activity;
CC	KW human leukocyte antigen; HLA; HBV infection; HBV epitope;	KW human leukocyte antigen; HLA; HBV infection; HBV epitope;
XX	KW antiinflammatory; hepatotropic; virucide.	KW antiinflammatory; hepatotropic; virucide.
XX	XX	XX
Sequence 10 AA;	XX	XX
Query Match 100.0%; Score 54; DB 5; Length 10;	XX	XX
Best Local Similarity 100.0%; Pred. No. 0.0024; Mismatches 0; Indels 0; Gaps 0;	AC ADK39666	AC ADK39666
Matches 10; Conservative 0; MisMatches 0; Indels 0; Gaps 0;	XX	XX
Qy 1 QAFIFSPYK 10	DT 06-MAY-2004 (first entry)	DT 06-MAY-2004 (first entry)
Db 1 QAFIFSPYK 10	XX	XX
RESULT 13	XX	XX
ADA49616 ID ADA49616 standard; peptide; 10 AA.	XX	XX
XX	AC ADA49616	AC ADA49616
AC ADA49616	XX	XX
DT 20-NOV-2003 (first entry)	XX	XX
XX Multi-epitope construct specific epitope #158.	DE Hepatitis B virus.	DE Hepatitis B virus.
XX	XX	XX
KW multi-epitope; immunogenic; epitope; major histocompatibility complex;	US6689363-B1.	US6689363-B1.

PD 10-FEB-2004. XX PD 10-FEB-2004. XX PF 27-JAN-1999; 99US-00239043. PR 29-JAN-1992; 92US-008227682. PR 27-APR-1992; 92US-0074491. PR 07-AUG-1992; 92US-00926666. PR 26-AUG-1992; 92US-00935811. PR 05-MAR-1993; 93US-00027146. PR 04-MAR-1993; 93US-00027205. PR 06-AUG-1993; 93US-0010339. PR 16-FEB-1994; 94US-00197484. PR 04-MAR-1994; 94US-00205713. PR 23-NOV-1994; 94US-00344824. PR 01-DEC-1994; 94US-00344824. PR 13-MAR-1996; 96US-0013363P. PR 12-MAR-1997; 97US-0082036. PR 25-NOV-1997; 97US-00978291. PR 10-NOV-1998; 98US-00189702. XX (EPIM-) EPIMMUNE INC. PA (EPIM-) EPIMMUNE INC. XX PI Sette A, Sidney J, Southwood S, Vitiello MA, Livingston BD; PI Celis E, Kubo RT, Grey HM, Chesnut RW; XX DR WPI; 2004-141419/14. XX PT Hepatitis B virus (HBV) vaccine composition useful for inducing cellular immune responses to HBV or for preventing and treating HBV infection. XX PS Disclosure; SEQ ID NO 2534; 73pp; English. XX The invention relates to a hepatitis B virus (HBV) vaccine composition comprising a pharmaceutical carrier and an isolated peptide less than 25 or less than 15 amino acids in length. The invention also relates to a method of inducing a cytotoxic T-cell response to HBV in a mammal and a method of monitoring immunogenic activity of the vaccine in a patient having a known human leukocyte antigen (HLA) type. The composition and methods are useful for preventing and treating HBV infection. This Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format directly from USPTO at seqdata.uspto.gov/sequence.html. XX Sequence 10 AA; SQ Sequence 10 AA; Query Match 100.0%; Score 54; DB 8; Length 10; Best Local Similarity 100.0%; Pred. No. 0.0024; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0; XX Qy 1 QAFTFSPTYK 10 Db 1 QAFTFSPTYK 10 DT 06-MAY-2004 (first entry) RESULT 15 XX ADRK3735 ID ADRK37735 standard; peptide; 10 AA. XX AC ADRK37735; XX DT 06-MAY-2004 (first entry) XX Hepatitis B virus (HBV) epitope #603. XX HBV; cytotoxic T-cell response; immunogenic activity; human leukocyte antigen; HLA; HBV infection; HBV epitope; antiinflammatory; nsaptotropic; virucide. XX OS Hepatitis B virus. XX PN US6689363-B1.

Search completed: June 28, 2005, 09:10:37  
Job time : 162 secs

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RA	Wang G., Li L., Si C.W.;
RT	"The study on quasispecies of hepatitis B virus: reverse transcriptase region in polymerase gene as an example.";
RT	Jie Fang Jun Yi Xue Za Zhi 26:923-925(2002).
RL	DR AF329559; F:ribonuclease H activity; IFA.
DR	DR AF329523; F:RNA binding; IFA.
DR	DR GO_0004523; F:RNA binding; IFA.
DR	DR GO_00100323; F:RNA binding; IFA.
DR	DR GO_000364; F:RNA-directed DNA Polymerase activity; IFA.
DR	DR GO_0016740; F:transferase activity; IFA.
DR	DR GO_001006218; P:RNA-dependent DNA replication; IFA.
DR	DR InterPro_ IPR001462; DNAPol_viral_C.
DR	DR InterPro_ IPR000477; PRTSE.
DR	DR PF003346; DNA_polymerase; C.
DR	DR PF00078; RVT_1;
DR	DR ProDom_ PDD00814; DNAPol_viral_C;
KW	RNA-directed DNA polymerase; Transferase.
FT	NON_TER 1
FT	NON_TER 345 345
FT	SEQUENCE 345 AA; 38786 MW; 57EA66B9A0F7A46F CRC64;
FT	SQL
FT	Query Match 100.0%; Score 54; DB 2; Length 345;
FT	Best Local Similarity 100.0%; Pred. No. 0.019; Mismatches 0; Gaps 0;
FT	Matches 10; Conservative 0; Indels 0;
FT	Gaps
Qy	1 QAFTEFSPTYK 1.0
Db	332 QAFTEFSPTYK 34.1
RESULT 12	
Q9DQ3	PRELIMINARY; PRT; 345 AA.
ID	Q9DQ3;
AC	Q9DQ3;
DT	01-MAR-2001 (TREMBLrel. 16, Created)
DT	01-MAR-2001 (TREMBLrel. 16, Last sequence update)
DT	01-OCT-2003 (TREMBLrel. 25, Last annotation update)
DB	Polymerase (Fragment).
OS	Hepatitis B virus.
OC	Viruses: Retrovirus; Hepadnaviridae; Orthohepadnavirus.
OX	NCBI_TAXID=10407;
RN	[1]
RP	SEQUENCE FROM N.A.
RA	Dong J., Cheng J., Wang Q.H., Shi S.S., Hong Y., Huangfu J.K.,
RA	Wang G., Li L., Si C.W.;
RA	"The study on quasispecies of hepatitis B virus: reverse transcriptase region in polymerase gene as an example.";
RT	"The preliminary study on individually characterized quasispecies of hepatitis B virus.";
RT	Pang Tu Hsueh Pao 17:270-272(2001).
RL	Jie Fang Jun Yi Xue Za Zhi 27:119-121(2002).
RN	[2]
RP	SEQUENCE FROM N.A.
RA	Dong J., Cheng J., Wang Q.H., Shi S.S., Hong Y., Huangfu J.K.,
RA	Wang G., Li L., Si C.W.;
RA	"The study on quasispecies of hepatitis B virus: reverse transcriptase region in polymerase gene as an example.";
RT	"The preliminary study on individually characterized quasispecies of hepatitis B virus.";
RT	Pang Tu Hsueh Pao 17:270-272(2001).
RL	Jie Fang Jun Yi Xue Za Zhi 27:119-121(2002).
RN	[3]
RP	SEQUENCE FROM N.A.
RA	Dong J., Cheng J., Wang Q.H., Shi S.S., Hong Y., Huangfu J.K.,
RA	Wang G., Li L., Si C.W.;
RA	"The study on quasispecies of hepatitis B virus: reverse transcriptase region in polymerase gene as an example.";
RT	"The preliminary study on individually characterized quasispecies of hepatitis B virus.";
RT	Pang Tu Hsueh Pao 17:270-272(2001).
RL	Jie Fang Jun Yi Xue Za Zhi 26:823-825(2002).
DR	DR AF329558; F:ribonuclease H activity; IFA.
DR	DR AF329523; F:RNA binding; IFA.
DR	DR GO_0004523; F:RNA binding; IFA.
DR	DR GO_00100323; F:RNA binding; IFA.
DR	DR GO_000364; F:RNA-directed DNA Polymerase activity; IFA.
DR	DR GO_0016740; F:transferase activity; IFA.
DR	DR GO_001006218; P:RNA-dependent DNA replication; IFA.
DR	DR InterPro_ IPR001462; DNAPol_viral_C.
DR	DR InterPro_ IPR000477; PRTSE.
FT	NON_TER 1
FT	SEQUENCE 345 AA; 38786 MW; 57EA66B9A0F7A46F CRC64;
FT	SQL
FT	Query Match 100.0%; Score 54; DB 2; Length 345;
FT	Best Local Similarity 100.0%; Pred. No. 0.019; Mismatches 0; Gaps 0;
FT	Matches 10; Conservative 0; Indels 0;
FT	Gaps
Qy	1 QAFTEFSPTYK 1.0
Db	332 QAFTEFSPTYK 34.1
RESULT 13	
Q9DQ3	PRELIMINARY; PRT; 345 AA.
ID	Q9DQ3;
AC	Q9DQ3;
DT	01-MAR-2001 (TREMBLrel. 16, Created)
DT	01-MAR-2001 (TREMBLrel. 16, Last sequence update)
DT	01-OCT-2003 (TREMBLrel. 25, Last annotation update)
DB	Polymerase (Fragment).
OS	Hepatitis B virus.
OC	Viruses: Retrovirus; Hepadnaviridae; Orthohepadnavirus.
OX	NCBI_TAXID=10407;
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RL	Jie Fang Jun Yi Xue Za Zhi 26:823-825(2002).
DR	DR AF329558; F:ribonuclease H activity; IFA.
DR	DR AF329523; F:RNA binding; IFA.
DR	DR GO_0004523; F:RNA binding; IFA.
DR	DR GO_00100323; F:RNA binding; IFA.
DR	DR GO_000364; F:RNA-directed DNA Polymerase activity; IFA.
DR	DR GO_0016740; F:transferase activity; IFA.
DR	DR GO_001006218; P:RNA-dependent DNA replication; IFA.
DR	DR InterPro_ IPR001462; DNAPol_viral_C.
DR	DR InterPro_ IPR000477; PRTSE.
FT	NON_TER 1
FT	SEQUENCE 345 AA; 38786 MW; 57EA66B9A0F7A46F CRC64;
FT	SQL
FT	Query Match 100.0%; Score 54; DB 2; Length 345;
FT	Best Local Similarity 100.0%; Pred. No. 0.019; Mismatches 0; Gaps 0;
FT	Matches 10; Conservative 0; Indels 0;
FT	Gaps
Qy	1 QAFTEFSPTYK 1.0
Db	332 QAFTEFSPTYK 34.1
RESULT 14	
Q9DQ3	PRELIMINARY; PRT; 345 AA.
ID	Q9DQ3;
AC	Q9DQ3;
DT	01-MAR-2001 (TREMBLrel. 16, Created)
DT	01-MAR-2001 (TREMBLrel. 16, Last sequence update)
DT	01-OCT-2003 (TREMBLrel. 25, Last annotation update)
DB	Polymerase (Fragment).
OS	Hepatitis B virus.
OC	Viruses: Retrovirus; Hepadnaviridae; Orthohepadnavirus.
OX	NCBI_TAXID=10407;
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RP	SEQUENCE FROM N.A.
RA	Dong J., Cheng J., Wang Q.H., Shi S.S., Hong Y., Huangfu J.K.,
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RA	"The study on quasispecies of hepatitis B virus: reverse transcriptase region in polymerase gene as an example.";
RT	"The preliminary study on individually characterized quasispecies of hepatitis B virus.";
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RL	Jie Fang Jun Yi Xue Za Zhi 27:119-121(2002).
RN	[2]
RP	SEQUENCE FROM N.A.
RA	Dong J., Cheng J., Wang Q.H., Shi S.S., Hong Y., Huangfu J.K.,
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DR	DR AF329523; F:RNA binding; IFA.
DR	DR GO_0004523; F:RNA binding; IFA.
DR	DR GO_00100323; F:RNA binding; IFA.
DR	DR GO_000364; F:RNA-directed DNA Polymerase activity; IFA.
DR	DR GO_0016740; F:transferase activity; IFA.
DR	DR GO_001006218; P:RNA-dependent DNA replication; IFA.
DR	DR InterPro_ IPR001462; DNAPol_viral_C.
DR	DR InterPro_ IPR000477; PRTSE.
FT	NON_TER 1
FT	SEQUENCE 345 AA; 38786 MW; 57EA66B9A0F7A46F CRC64;
FT	SQL
FT	Query Match 100.0%; Score 54; DB 2; Length 345;
FT	Best Local Similarity 100.0%; Pred. No. 0.019; Mismatches 0; Gaps 0;
FT	Matches 10; Conservative 0; Indels 0;
FT	Gaps
Qy	1 QAFTEFSPTYK 1.0
Db	332 QAFTEFSPTYK 34.1

FT	NON_TER	1	1	RX	RA	MEDLINE=95294549; PubMed=7775946;
FT	NON_TER	345	345	RT	RT	"Complete nucleotide sequences and the characteristics of two hepatitis B virus mutants causing serologically negative acute or chronic hepatitis B".
SQ	SEQUENCE	345 AA;	38719 MW;	RT	RT	hepatitis B virus mutants causing serologically negative acute or chronic hepatitis B".
Query Match		100.0%;	Score 54;	DB 2;	Length 345;	
Best Local Similarity		100.0%;	Pred. No. 0.019;			
Matches 10;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;		
Qy	1	QAFPSPTYK 10				
Db	332	QAFPSPTYK 341				
RESULT 13						
Q97975	PRELIMINARY;		PRT;	540 AA.		
ID	Q97975					
AC						
DT	01-FEB-1997	(TREMBLrel. 02, Created)				
DT	01-FEB-1997	(TREMBLrel. 02, Last sequence update)				
DT	01-OCT-2003	(TREMBLrel. 25, Last annotation update)				
DE		ORF (Fragment).				
OS		Hepatitis B virus.				
OC		Viruses; Retrovirus; Hepadnaviridae; Orthopadnavirus.				
RN	[1]					
RP	SEQUENCE FROM N.A.					
RX	Medline=95294549;					
RA	Uchida T., Gotoh K., Shikata T.;					
RT	"Complete nucleotide sequences and the characteristics of two hepatitis B virus mutants causing serologically negative acute or chronic hepatitis B".					
RT	hepatitis B virus mutants causing serologically negative acute or chronic hepatitis B".					
RT	hepatitis B virus.					
RT	Viruses; Retrovirus; Hepadnaviridae; Orthopadnavirus.					
RN	NCBI_TaxID=10407;					
RN	SEQUENCE FROM N.A.					
RX	Medline=7775946;					
RA	Uchida T., Gotoh K., Shikata T.;					
RT	"Complete nucleotide sequences and the characteristics of two hepatitis B virus mutants causing serologically negative acute or chronic hepatitis B".					
RT	hepatitis B virus mutants causing serologically negative acute or chronic hepatitis B".					
RT	hepatitis B virus.					
RT	Viruses; Retrovirus; Hepadnaviridae; Orthopadnavirus.					
RN	[1]					
RP	SEQUENCE FROM N.A.					
RX	Medline=7775946;					
RA	Uchida T., Gotoh K., Shikata T.;					
RT	"Complete nucleotide sequences and the characteristics of two hepatitis B virus mutants causing serologically negative acute or chronic hepatitis B".					
RT	hepatitis B virus mutants causing serologically negative acute or chronic hepatitis B".					
RT	hepatitis B virus.					
RT	Viruses; Retrovirus; Hepadnaviridae; Orthopadnavirus.					
RN	NCBI_TaxID=10407;					
RN	SEQUENCE FROM N.A.					
RX	Medline=87059755;					
RA	Okamoto H., Imai M., Shimozaki M., Hoshi Y., Tizuka H., Gotanda T.,					
RT	"Nucleotide Sequence of a Cloned Hepatitis B Virus Genome , Subtype ay:Comparison with Genomes of the Other Three Subtypes ."					
RT	ay:Comparison with Genomes of the Other Three Subtypes ."					
RT	J. Gen. Virol. 67:2305-2314 (1986).					
RT	J. Gen. Virol. 67:2305-2314 (1986).					
DR	EMBL; X04615; CRA28286.1;					
DR	ProDom; PD000814; DNAPol_viral_C; 1.					
DR	PFam; PF00242; DNAPol_viral_N; 1.					
DR	PFam; PF00078; RVT_1;					
DR	RNA-directed DNA polymerase; Transferase.					
FT	NON_TER	1	1	SEQUENCE	540 AA;	7BBB285359DD39CS CRC64;
FT	NON_TER	1	1	Query Match	100.0%;	Score 54;
FT	NON_TER	1	1	Best Local Similarity	100.0%;	DB 2;
FT	NON_TER	1	1	Matches 10;	Conservative 0;	Length 540;
FT	NON_TER	1	1	Qy	1	QAFPSPTYK 10
FT	NON_TER	1	1	Db	362	QAFPSPTYK 371
RESULT 14				Query Match	100.0%;	Score 54;
Q97976	PRELIMINARY;		PRT;	540 AA.		
ID	Q97976					
AC						
DT	01-FEB-1997	(TREMBLrel. 02, Created)				
DT	01-FEB-1997	(TREMBLrel. 02, Last sequence update)				
DT	01-OCT-2003	(TREMBLrel. 25, Last annotation update)				
DE		ORF (Fragment).				
OS		Hepatitis B virus.				
OC		Viruses; Retrovirus; Hepadnaviridae; Orthopadnavirus.				
OX	[1]					
RN	NCBI_TaxID=10407;					
RP	SEQUENCE FROM N.A.					
RX	Medline=87059755;					
RA	Tauda F., Miyakawa Y., Mayumi M.,					
RT	"Nucleotide Sequence of a Cloned Hepatitis B Virus Genome , Subtype ay:Comparison with Genomes of the Other Three Subtypes ."					
RT	J. Gen. Virol. 67:2305-2314 (1986).					
RT	J. Gen. Virol. 67:2305-2314 (1986).					
DR	EMBL; X04615; CRA28286.1;					
DR	ProDom; PD000814; DNAPol_viral_C; 1.					
DR	PFam; PF00242; DNAPol_viral_N; 1.					
DR	PFam; PF00078; RVT_1;					
DR	RNA-directed DNA polymerase; Transferase.					
FT	NON_TER	1	1	SEQUENCE	540 AA;	60345 MW;
FT	NON_TER	1	1	Query Match	100.0%;	Score 54;
FT	NON_TER	1	1	Best Local Similarity	100.0%;	DB 2;
FT	NON_TER	1	1	Matches 10;	Conservative 0;	Length 540;
FT	NON_TER	1	1	Qy	1	QAFPSPTYK 10
FT	NON_TER	1	1	Db	362	QAFPSPTYK 371
RESULT 15				Query Match	100.0%;	Score 54;
Q97926	PRELIMINARY;		PRT;	540 AA.		
ID	Q97926					
AC						
DT	01-NOV-1996	(TREMBLrel. 01, Created)				
DT	01-NOV-1996	(TREMBLrel. 01, Last sequence update)				
DT	01-OCT-2003	(TREMBLrel. 25, Last annotation update)				
DE		P gene product.				
OS		Hepatitis B virus.				
OC		Viruses; Retrovirus; Hepadnaviridae; Orthopadnavirus.				
OX	[1]					
RN	NCBI_TaxID=10407;					
RP	SEQUENCE FROM N.A.					
RX	Medline=87059755;					
RA	Okamoto H., Imai M., Shimozaki M., Hoshi Y., Tizuka H., Gotanda T.,					
RT	"Nucleotide Sequence of a Cloned Hepatitis B Virus Genome , Subtype ay:Comparison with Genomes of the Other Three Subtypes ."					
RT	J. Gen. Virol. 67:2305-2314 (1986).					
RT	J. Gen. Virol. 67:2305-2314 (1986).					
DR	EMBL; X04615; CRA28286.1;					
DR	ProDom; PD000814; DNAPol_viral_C; 1.					
DR	PFam; PF00242; DNAPol_viral_N; 1.					
DR	PFam; PF00078; RVT_1;					
DR	RNA-directed DNA polymerase; Transferase.					
FT	NON_TER	1	1	SEQUENCE	540 AA;	60345 MW;
FT	NON_TER	1	1	Query Match	100.0%;	Score 54;
FT	NON_TER	1	1	Best Local Similarity	100.0%;	DB 2;
FT	NON_TER	1	1	Matches 10;	Conservative 0;	Length 540;
FT	NON_TER	1	1	Qy	1	QAFPSPTYK 10
FT	NON_TER	1	1	Db	362	QAFPSPTYK 371

Best Local Similarity 100.0%; Pred. No. 0.032; Mismatches 0; Indels 0; Gaps 0;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 QAFTRFPTYK 10  
Db 362 QAFTRFPTYK 371

Search completed: June 28, 2005, 09:13:30  
Job time : 168 secs

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US-08-159-339A-374  
 Query Match 100.0%; Score 54; DB 3; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 0.00098; Mismatches 0; Indels 0; Gaps 0;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QAFTPSPYK 10  
 Db 1 QAFTPSPYK 10

RESULT 2  
 US-09-311-784A-159  
 ; Sequence 159, Application US/09111784A  
 ; Patent No. 6534482  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Fikes, John D.  
 ; APPLICANT: Hermanson, Gary G.  
 ; APPLICANT: Sette, Alessandro  
 ; APPLICANT: Ishioka, Glenn Y.  
 ; APPLICANT: Livingston, Brian  
 ; APPLICANT: Chesnut, Robert W.  
 ; APPLICANT: Epimmune Inc.  
 ; TITLE OF INVENTION: Expression Vectors for Stimulating an Immune Response and Methods of Using the Same  
 ; FILE REFERENCE: 39963-20022.01  
 ; CURRENT APPLICATION NUMBER: US/09/311,784A  
 ; CURRENT FILING DATE: 1999-05-13  
 ; PRIOR FILING DATE: 1998-05-15  
 ; NUMBER OF SEQ ID NOS: 463  
 ; SOFTWARE: FastSBQ for Windows Version 3.0  
 ; SEQ ID NO: 159  
 ; LENGTH: 10  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: HBV pol 665 (peptide 1090.10)

US-09-311-784A-159  
 Query Match 100.0%; Score 54; DB 4; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 0.00098; Mismatches 0; Indels 0; Gaps 0;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QAFTPSPYK 10  
 Db 1 QAFTPSPYK 10

RESULT 3  
 US-09-239-043D-603  
 ; Sequence 603, Application US/09239043D  
 ; Patent No. 6689363  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sette, Alessandro  
 ; APPLICANT: Sidney, John  
 ; APPLICANT: Southwood, Scott  
 ; APPLICANT: Vitiello, Maria A.  
 ; APPLICANT: Livingston, Brian D.  
 ; APPLICANT: Celis, Esteban  
 ; APPLICANT: Kubo, Ralph T.  
 ; APPLICANT: Grey, Howard M.  
 ; APPLICANT: Chesnut, Robert  
 ; APPLICANT: Epimmune Inc.  
 ; TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B Virus  
 ; FILE REFERENCE: 2060 0060007  
 ; CURRENT APPLICATION NUMBER: US/09/239,043D  
 ; CURRENT FILING DATE: 1999-01-27  
 ; PRIOR APPLICATION NUMBER: US 09/189,702  
 ; PRIOR FILING DATE: 1998-11-10  
 ; PRIOR APPLICATION NUMBER: US 09/189,702  
 ; PRIOR FILING DATE: 1997-11-25  
 ; PRIOR APPLICATION NUMBER: US 08/820,360  
 ; PRIOR FILING DATE: 1997-03-12  
 ; PRIOR APPLICATION NUMBER: US 60/013,363  
 ; PRIOR FILING DATE: 1996-03-13  
 ; PRIOR APPLICATION NUMBER: US 08/461,603  
 ; PRIOR FILING DATE: 1995-06-05  
 ; PRIOR APPLICATION NUMBER: US 08/347,610  
 ; PRIOR FILING DATE: 1994-12-01  
 ; PRIOR APPLICATION NUMBER: US 08/344,824  
 ; PRIOR FILING DATE: 1994-11-23  
 ; PRIOR APPLICATION NUMBER: US 08/278,634  
 ; PRIOR FILING DATE: 1994-07-21  
 ; PRIOR APPLICATION NUMBER: US 08/205,713  
 ; PRIOR FILING DATE: 1994-02-16  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 2579  
 ; SOFTWARE: FastSBQ for Windows Version 4.0  
 ; SEQ ID NO: 603  
 ; LENGTH: 10  
 ; TYPE: PRT  
 ; ORGANISM: Orthohepatnaviridae hepatitis B virus  
 ; SEQ ID NO: 239-043D-603

RESULT 4  
 US-09-239-043D-1917  
 ; Sequence 1917, Application US/09239043D  
 ; Patent No. 6689363  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sette, Alessandro  
 ; APPLICANT: Sidney, John  
 ; APPLICANT: Southwood, Scott  
 ; APPLICANT: Vitiello, Maria A.  
 ; APPLICANT: Livingston, Brian D.  
 ; APPLICANT: Celis, Esteban  
 ; APPLICANT: Kubo, Ralph T.  
 ; APPLICANT: Grey, Howard M.  
 ; APPLICANT: Chesnut, Robert  
 ; APPLICANT: Epimmune Inc.  
 ; TITLE OF INVENTION: Inducing Peptide and Nucleic Acid Compositions  
 ; FILE REFERENCE: 2060 0060007  
 ; CURRENT APPLICATION NUMBER: US/09/239,043D  
 ; CURRENT FILING DATE: 1999-01-27  
 ; PRIOR APPLICATION NUMBER: US 09/189,702  
 ; PRIOR FILING DATE: 1998-11-10  
 ; PRIOR APPLICATION NUMBER: US 08/978,291  
 ; PRIOR FILING DATE: 1997-11-25  
 ; PRIOR APPLICATION NUMBER: US 08/820,360  
 ; PRIOR FILING DATE: 1997-03-12  
 ; PRIOR APPLICATION NUMBER: US 60/013,363  
 ; PRIOR FILING DATE: 1996-03-13  
 ; PRIOR APPLICATION NUMBER: US 08/461,603  
 ; PRIOR FILING DATE: 1995-06-05  
 ; PRIOR APPLICATION NUMBER: US 08/347,610  
 ; PRIOR FILING DATE: 1994-12-01  
 ; PRIOR APPLICATION NUMBER: US 08/344,824  
 ; PRIOR FILING DATE: 1994-11-23  
 ; PRIOR FILING DATE: 1994-07-21  
 ; PRIOR APPLICATION NUMBER: US 08/205,713  
 ; PRIOR FILING DATE: 1994-03-04  
 ; PRIOR APPLICATION NUMBER: US 08/197,484

Query Match 100.0%; Score 54; DB 4; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 0.00098;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 ORGANISM: Orthohepadnaviridae hepatitis B virus

US-09-239-043D-1917

Qy 1 QAFTFSPTYK 10  
 Db 1 QAFTFSPTYK 10

RESULT 5  
 US-09-239-043D-2534  
 Sequence 2534, Application US/09239043D  
 Patent No. 6689363  
 GENERAL INFORMATION:  
 / APPLICANT: Sette, Alessandro  
 / APPLICANT: Sidney, John  
 / APPLICANT: Southwood, Scott  
 / APPLICANT: Vitello, Maria A.  
 / APPLICANT: Livingston, Brian D.  
 / APPLICANT: Celis, Esteban  
 / APPLICANT: Kubo, Ralph T.  
 / APPLICANT: Grey, Howard M.  
 / APPLICANT: Chesnut, Robert  
 / APPLICANT: Epimmune Inc.  
 / TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B Virus  
 / TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions  
 / FILE REFERENCE: 2060\_0060007  
 / CURRENT APPLICATION NUMBER: US/09/239,043D  
 / CURRENT FILING DATE: 1999-01-27  
 / PRIOR APPLICATION NUMBER: US 09/189,702  
 / PRIOR FILING DATE: 1998-11-10  
 / PRIOR APPLICATION NUMBER: US 08/978,291  
 / PRIOR FILING DATE: 1997-11-25  
 / PRIOR APPLICATION NUMBER: US 08/820,360  
 / PRIOR FILING DATE: 1997-03-12  
 / PRIOR APPLICATION NUMBER: US 60/013,363  
 / PRIOR FILING DATE: 1996-03-13  
 / PRIOR APPLICATION NUMBER: US 08/461,603  
 / PRIOR FILING DATE: 1995-06-05  
 / PRIOR APPLICATION NUMBER: US 08/347,610  
 / PRIOR FILING DATE: 1994-12-01  
 / PRIOR APPLICATION NUMBER: US 08/344,824  
 / PRIOR FILING DATE: 1994-11-23  
 / PRIOR APPLICATION NUMBER: US 08/278,634  
 / PRIOR FILING DATE: 1994-07-21  
 / PRIOR APPLICATION NUMBER: US 08/205,713  
 / PRIOR FILING DATE: 1994-03-04  
 / PRIOR APPLICATION NUMBER: US 08/197,484  
 / PRIOR FILING DATE: 1994-02-16  
 / Remaining Prior Application data removed - See File Wrapper or PALM.  
 / SOFTWARE: FastSEQ for Windows Version 4.0  
 / SEQ ID NO: 433  
 / LENGTH: 11  
 / TYPE: PRT  
 / ORGANISM: Orthohepadnaviridae hepatitis B virus

US-09-239-043D-433

Query Match 100.0%; Score 54; DB 4; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 0.00011;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QAFTFSPTYK 10  
 Db 1 QAFTFSPTYK 10

RESULT 7  
 US-09-009-953-266  
 / Sequence 266, Application US/09009953  
 / Patent No. 6413517  
 / GENERAL INFORMATION:  
 / APPLICANT: Sette, Alessandro  
 / TITLE OF INVENTION: Identification of Broadly  
 / Reactive DR Restricted Epitopes  
 / NUMBER OF SEQUENCES: 274  
 / CORRESPONDENCE ADDRESS:  
 / ADDRESSEE: Townsend and Townsend and Crew LLP

Qy 1 QAFTFSPTYK 10

Query Match 100.0%; Score 54; DB 4; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 0.00098;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

US-09-239-043D-2534

Query Match 100.0%; Score 54; DB 4; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 0.00098;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QAFTFSPTYK 10

STREET: Two Embarcadero Center, Eighth Floor  
 CITY: San Francisco  
 STATE: CA  
 COUNTRY: USA

ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

OPERATING SYSTEM: DOS

COMPUTER: IBM Compatible

SOFTWARE: FastSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

FILING DATE: 21-Jan-1998

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/036,713

FILING DATE: 23-JAN-1997

APPLICATION NUMBER: US 60/037,432

FILING DATE: 07-FEB-1997

ATTORNEY/AGENT INFORMATION:

NAME: Weber, Ellen Lauver

REGISTRATION NUMBER: 32,762

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-576-0200

TELEFAX: 415-576-0300

INFORMATION FOR SEQ ID NO: 266:

SEQUENCE CHARACTERISTICS:

LENGTH: 15 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 266:

US-09-009-953-266

Query Match 100.0% Score 54 DB 4; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 0.0015; Indels 0; Gaps 0;  
 Matches 10; Conservative 0; Mismatches 0;

Qy 1 QAFPSPTK 10  
 Db 2 QAFPSPTK 11

RESULT 8  
 US-09-311-784A-137  
 / Sequence 137, Application US/09311784A

GENERAL INFORMATION:

APPLICANT: Fikes, John D.

APPLICANT: Hermanson, Gary G.

APPLICANT: Sette, Alessandro

APPLICANT: Ishioka, Glenn Y.

APPLICANT: Livingston, Brian

APPLICANT: Cheanut, Robert W.

APPLICANT: Epimmune Inc.

TITLE OF INVENTION: Expression Vectors for Stimulating an

Immune Response and Methods of Using the Same

FILE REFERENCE: 39963-20022.01

CURRENT FILING DATE: 1999-05-13

PRIOR APPLICATION NUMBER: US 09/311,784A

PRIOR FILING DATE: 1998-05-15

NUMBER OF SEQ ID NOS: 463

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 137

LENGTH: 15

TYPE: PRT

FEATURE: Artificial Sequence

OTHER INFORMATION: HBV P01 661 (peptide 1298.06)

US-09-311-784A-137

STREET: Two Embarcadero Center, Eighth Floor

CITY: San Francisco

STATE: CA

COUNTRY: USA

ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

OPERATING SYSTEM: DOS

COMPUTER: IBM Compatible

SOFTWARE: FastSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

FILING DATE: 21-Jan-1998

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/036,713

FILING DATE: 23-JAN-1997

APPLICATION NUMBER: US 60/037,432

FILING DATE: 07-FEB-1997

ATTORNEY/AGENT INFORMATION:

NAME: Weber, Ellen Lauver

REGISTRATION NUMBER: 32,762

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-576-0200

TELEFAX: 415-576-0300

INFORMATION FOR SEQ ID NO: 266:

SEQUENCE CHARACTERISTICS:

LENGTH: 15 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 266:

US-09-009-953-266

Query Match 100.0% Score 54 DB 4; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 0.0015; Indels 0; Gaps 0;  
 Matches 10; Conservative 0; Mismatches 0;

Qy 1 QAFPSPTK 10  
 Db 2 QAFPSPTK 11

RESULT 9  
 US-09-239-043D-2122  
 / Sequence 2122, Application US/09239043D

GENERAL INFORMATION:

APPLICANT: Sette, Alessandro

APPLICANT: Sidney, John

APPLICANT: Southwood, Scott

APPLICANT: Vitelli, Maria A.

APPLICANT: Livingston, Brian D.

APPLICANT: Celis, Esteban

APPLICANT: Kubo, Ralph T.

APPLICANT: Gray, Howard M.

APPLICANT: Cheanut, Robert

APPLICANT: Epimmune Inc.

TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B Virus

FILE REFERENCE: 2060-0060007

CURRENT APPLICATION NUMBER: US/09/239,043D

CURRENT FILING DATE: 1999-01-27

PRIOR APPLICATION NUMBER: US 09/189,702

PRIOR FILING DATE: 1998-11-10

PRIOR APPLICATION NUMBER: US 08/978,291

PRIOR FILING DATE: 1997-11-25

PRIOR APPLICATION NUMBER: US 08/820,360

PRIOR FILING DATE: 1997-03-12

PRIOR APPLICATION NUMBER: US 60/013,363

PRIOR FILING DATE: 1996-03-13

PRIOR APPLICATION NUMBER: US 08/461,603

PRIOR FILING DATE: 1995-06-05

PRIOR APPLICATION NUMBER: US 08/347,610

PRIOR FILING DATE: 1994-12-01

PRIOR APPLICATION NUMBER: US 08/344,824

PRIOR FILING DATE: 1994-11-23

PRIOR APPLICATION NUMBER: US 08/278,634

PRIOR FILING DATE: 1994-07-21

PRIOR APPLICATION NUMBER: US 08/205,713

PRIOR FILING DATE: 1994-03-04

PRIOR APPLICATION NUMBER: US 08/197,484

PRIOR FILING DATE: 1994-02-16

PRIOR FILING DATE: 1994-02-16

NUMBER OF SEQ ID NOS: 2579

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 2122

LENGTH: 15

TYPE: PRT

ORGANISM: Orthohepatnaviridae hepatitis B virus

US-09-239-043D-2122

Query Match 100.0% Score 54 DB 4; Length 15;

Best Local Similarity 100.0%; Pred. No. 0.0015;

Mismatches 0; Indels 0; Gaps 0;

Qy 1 QAFPSPTK 10  
 Db 2 QAFPSPTK 11

RESULT 10

US-09-239-043D-2556

/ Sequence 2556, Application US/09239043D

/ Patent No. 6689363

GENERAL INFORMATION:

APPLICANT: Sette, Alessandro  
APPLICANT: Sidney, John  
APPLICANT: Southwood, Scott  
APPLICANT: Vitello, Maria A.  
APPLICANT: Livingston, Brian D.  
APPLICANT: Celis, Bsteban  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Chesnut, Robert  
APPLICANT: Epimmune Inc.

TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B Virus

TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions

FILE REFERENCE: 2060\_0060007

CURRENT APPLICATION NUMBER: US/09/239,043D

CURRENT FILING DATE: 1999-01-27

PRIOR APPLICATION NUMBER: US 09/189,702

PRIOR FILING DATE: 1998-11-10

PRIOR APPLICATION NUMBER: US 08/978,291

PRIOR FILING DATE: 1997-11-25

PRIOR APPLICATION NUMBER: US 08/820,360

PRIOR FILING DATE: 1997-03-12

PRIOR APPLICATION NUMBER: US 60/013,363

PRIOR FILING DATE: 1996-03-13

PRIOR APPLICATION NUMBER: US 08/461,603

PRIOR FILING DATE: 1995-06-05

PRIOR APPLICATION NUMBER: US 08/347,610

PRIOR FILING DATE: 1994-12-01

PRIOR APPLICATION NUMBER: US 08/344,824

PRIOR FILING DATE: 1994-11-23

PRIOR APPLICATION NUMBER: US 08/278,534

PRIOR FILING DATE: 1994-07-21

PRIOR APPLICATION NUMBER: US 08/205,713

PRIOR FILING DATE: 1994-03-04

PRIOR APPLICATION NUMBER: US 08/197,484

PRIOR FILING DATE: 1994-02-16

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 2579

SOFTWARE: FASTSEQ for Windows Version 4.0

SEQ ID NO: 2556

LENGTH: 15

TYPE: PRT

ORGANISM: Orthohepadnaviridae hepatitis B virus

US-09-239-043D-2556

Query Match 100.0%; Score 54; DB 4; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.0015; Mismatches 0; Gaps 0;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QAFTEFSPTYK 10  
Db 2 QAFTEFSPTYK 11

RESULT 11

US-08-591-502B-49

; Sequence 49, Application US/08591502B  
; Patent No. 6607727

GENERAL INFORMATION:

APPLICANT: Chisari, Francis V.

TITLE OF INVENTION: Peptides for Inducing Cytotoxic T Lymphocyte Responses to Hepatitis B Virus

NUMBER OF SEQUENCES: 99

CORRESPONDENCE ADDRESS:

ADDRESSSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/591,502B

FILING DATE: 20-May-1996

CLASSIFICATION: <Unknown>

BRIEF APPLICATION DATA:

APPLICATION NUMBER: US 07/749,540

FILING DATE: 26-AUG-1991

APPLICATION NUMBER: US 07/935,898

FILING DATE: 26-AUG-1992

APPLICATION NUMBER: US 08/100,870

FILING DATE: 02-AUG-1993

APPLICATION NUMBER: WO PCT/US94/08685  
 FILING DATE: 01-AUG-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Weber, Ellen Lauver  
 REGISTRATION NUMBER: 32,762  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415) 576-0200  
 TELEFAX: (415) 576-0300  
 INFORMATION FOR SEQ ID NO: 60  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 832 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: <Unknown>  
 TOPOLGY: linear  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 60:  
 US-08-591-502B-60

Query Match 100.0%; Score 54; DB 4; Length 832;  
 Best Local Similarity 100.0%; Pred. No. 0.086%;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QAFTFSPTYK 10  
 Db 654 QAFTFSPTYK 663

RESULT 13  
 US-08-591-502B-61  
 Sequence 61, Application US/08591502B  
 GENERAL INFORMATION:  
 Patent No. 6607727  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 NUMBER OF SEQUENCES: 99  
 TITLE OF INVENTION: Peptides for Inducing Cytotoxic T Lymphocyte Responses to Hepatitis B Virus  
 CORRESPONDENCE ADDRESS:  
 ADDRESS: Townsend and Townsend and Crew LLP  
 STREET: Two Embarcadero Center, Eighth Floor  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94111-3834  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/591,502B  
 FILING DATE: 20-May-1996  
 PRIORITY NUMBER: US/08/591,502B  
 FILING DATE: 26-AUG-1991  
 PRIORITY NUMBER: US 07/749,540  
 FILING DATE: 26-AUG-1991  
 PRIORITY NUMBER: US 07/935,898  
 FILING DATE: 26-AUG-1992  
 PRIORITY NUMBER: US 08/100,870  
 FILING DATE: 02-AUG-1993  
 PRIORITY NUMBER: WO PCT/US94/08685  
 FILING DATE: 01-AUG-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Weber, Ellen Lauver  
 REGISTRATION NUMBER: 32,762  
 REFERENCE/DOCKET NUMBER: 014740-000230US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415) 576-0200  
 INFORMATION FOR SEQ ID NO: 61:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 832 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: <Unknown>  
 TOPOLGY: linear  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 62:  
 US-08-591-502B-62

Query Match 100.0%; Score 54; DB 4; Length 832;  
 Best Local Similarity 100.0%; Pred. No. 0.086%;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QAFTFSPTYK 10  
 Db 654 QAFTFSPTYK 663

RESULT 15  
 US-08-591-502B-63  
 Sequence 63, Application US/08591502B  
 Patent No. 6607727  
 GENERAL INFORMATION:  
 APPLICANT: Chisari, Francis V.  
 TITLE OF INVENTION: Peptides for Inducing Cytotoxic T Lymphocyte Responses to Hepatitis B Virus  
 NUMBER OF SEQUENCES: 99  
 NUMBER OF SEQUENCES: 99  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Townsend and Townsend and Crew LLP  
 STREET: Two Embarcadero Center, Eighth Floor  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94111-3834  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/591,502B  
 FILING DATE: 20-MAY-1996  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/749,540  
 FILING DATE: 26-AUG-1991  
 APPLICATION NUMBER: US 07/935,898  
 FILING DATE: 26-AUG-1992  
 APPLICATION NUMBER: US 08/100,870  
 FILING DATE: 02-AUG-1993  
 APPLICATION NUMBER: WO PCT/US94/08685  
 FILING DATE: 01-AUG-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Weber, Ellen Lauver  
 REGISTRATION NUMBER: 32,762  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415) 576-0200  
 TELEFAX: (415) 576-0300  
 INFORMATION FOR SEQ ID NO: 63:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 832 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: <Unknown>  
 TOPOLOGY: Linear  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 63:  
 US-08-591-502B-63  
 Query Match 100.0%; Score 54; DB 4; Length 832;  
 Best Local Similarity 100.0%; Pred. No. 0.086;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 QAFIFSPRYK 10  
 Db 654 QAFIFSPRYK 663  
 Search completed: June 28, 2005, 09:15:02  
 Job time : 42 SECs

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B2M protein - Protein search, using BW model					
Run on:	June 28, 2005, 09:10:44 ; Search time 158 Seconds (without alignments) 24.338 Million cell updates/sec				
Title:	US-09-350-401B-638				
Perfect score:	54				
Sequence:	1 QAFFFSPTYK 10				
Scoring table:	BLOSUM62				
Gapext	0.5				
Searched:	1717557 seqs, 384547976 residues				
Total number of hits satisfying chosen parameters:	1717557				
Minimum DB seq length:	0				
Maximum DB seq length:	2000000000				
Post-processing:	Minimum Match 0% Maximum Match 100% Listing First 45 summaries				
Published Applications AA: * 1: /cgn2_5/_ptodata/2/_pubpaa/_US07_PUBCOMB.pep:*					
2: /cgn2_6/_ptodata/2/_pubpaa/_US07_PUBCOMB.pep:*					
3: /cgn2_6/_ptodata/2/_pubpaa/_US06_PUBCOMB.pep:*					
4: /cgn2_6/_ptodata/2/_pubpaa/_US06_PUBCOMB.pep:*					
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13: /cgn2_6/_ptodata/2/_pubpaa/_US10A_PUBCOMB.pep:*					
14: /cgn2_6/_ptodata/2/_pubpaa/_US10B_PUBCOMB.pep:*					
15: /cgn2_6/_ptodata/2/_pubpaa/_US10C_PUBCOMB.pep:*					
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17: /cgn2_6/_ptodata/2/_pubpaa/_US10E_PUBCOMB.pep:*					
18: /cgn2_6/_ptodata/2/_pubpaa/_US10F_PUBCOMB.pep:*					
19: /cgn2_6/_ptodata/2/_pubpaa/_US11A_PUBCOMB.pep:*					
20: /cgn2_6/_ptodata/2/_pubpaa/_US11 NEW_PUBCOMB.pep:*					
21: /cgn2_6/_ptodata/2/_pubpaa/_US60_PUBCOMB.pep:*					
22: /cgn2_6/_ptodata/2/_pubpaa/_US60_PUBCOMB.pep:*					
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the total score distribution, and is derived by analysis of the total score distribution.					
SUMMARIES					
Result No.	Score	Match Length	DB ID	Description	
1	54	100.0	10	9 US-09-894-018-300	Sequence 300, APP
2	54	100.0	10	14 US-10-239-313A-325	Sequence 325, APP
3	54	100.0	10	15 US-10-371-525-159	Sequence 159, APP
4	54	100.0	10	15 US-10-371-609-159	Sequence 159, APP
5	54	100.0	10	15 US-10-371-645-159	Sequence 159, APP
6	54	100.0	10	15 US-10-371-260-159	Sequence 159, APP
7	54	100.0	10	16 US-10-474-960A-603	Sequence 603, APP
8	54	100.0	10	17 US-10-654-601-1917	Sequence 1917, APP
9	54	100.0	10	17 US-10-654-601-2534	Sequence 433, APP
10	54	100.0	11	17 US-10-654-601-433	Sequence 434, APP
11	54	100.0	11	17 US-10-654-601-433	Sequence 434, APP
SUMMARIES					
Result No.	Score	Match Length	DB ID	Description	
1	54	100.0	10	9 US-09-894-018-300	Sequence 300, APP
2	54	100.0	10	14 US-10-239-313A-325	Sequence 325, APP
3	54	100.0	10	15 US-10-371-525-159	Sequence 159, APP
4	54	100.0	10	15 US-10-371-609-159	Sequence 159, APP
5	54	100.0	10	15 US-10-371-645-159	Sequence 159, APP
6	54	100.0	10	15 US-10-371-260-159	Sequence 159, APP
7	54	100.0	10	16 US-10-474-960A-603	Sequence 603, APP
8	54	100.0	10	17 US-10-654-601-1917	Sequence 1917, APP
9	54	100.0	10	17 US-10-654-601-2534	Sequence 433, APP
10	54	100.0	11	17 US-10-654-601-433	Sequence 434, APP
11	54	100.0	11	17 US-10-654-601-433	Sequence 434, APP
SUMMARIES					
Result No.	Score	Match Length	DB ID	Description	
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2	54	100.0	10	14 US-10-239-313A-325	Sequence 325, APP
3	54	100.0	10	15 US-10-371-525-159	Sequence 159, APP
4	54	100.0	10	15 US-10-371-609-159	Sequence 159, APP
5	54	100.0	10	15 US-10-371-645-159	Sequence 159, APP
6	54	100.0	10	15 US-10-371-260-159	Sequence 159, APP
7	54	100.0	10	16 US-10-474-960A-603	Sequence 603, APP
8	54	100.0	10	17 US-10-654-601-1917	Sequence 1917, APP
9	54	100.0	10	17 US-10-654-601-2534	Sequence 433, APP
10	54	100.0	11	17 US-10-654-601-433	Sequence 434, APP
11	54	100.0	11	17 US-10-654-601-433	Sequence 434, APP
SUMMARIES					
Result No.	Score	Match Length	DB ID	Description	
1	54	100.0	10	9 US-09-894-018-300	Sequence 300, APP
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3	54	100.0	10	15 US-10-371-525-159	Sequence 159, APP
4	54	100.0	10	15 US-10-371-609-159	Sequence 159, APP
5	54	100.0	10	15 US-10-371-645-159	Sequence 159, APP
6	54	100.0	10	15 US-10-371-260-159	Sequence 159, APP
7	54	100.0	10	16 US-10-474-960A-603	Sequence 603, APP
8	54	100.0	10	17 US-10-654-601-1917	Sequence 1917, APP
9	54	100.0	10	17 US-10-654-601-2534	Sequence 433, APP
10	54	100.0	11	17 US-10-654-601-433	Sequence 434, APP
11	54	100.0	11	17 US-10-654-601-433	Sequence 434, APP
SUMMARIES					
Result No.	Score	Match Length	DB ID	Description	
1	54	100.0	10	9 US-09-894-018-300	Sequence 300, APP
2	54	100.0	10	14 US-10-239-313A-325	Sequence 325, APP
3	54	100.0	10	15 US-10-371-525-159	Sequence 159, APP
4	54	100.0	10	15 US-10-371-609-159	Sequence 159, APP
5	54	100.0	10	15 US-10-371-645-159	Sequence 159, APP
6	54	100.0	10	15 US-10-371-260-159	Sequence 159, APP
7	54	100.0	10	16 US-10-474-960A-603	Sequence 603, APP
8	54	100.0	10	17 US-10-654-601-1917	Sequence 1917, APP
9	54	100.0	10	17 US-10-654-601-2534	Sequence 433, APP
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SUMMARIES					
Result No.	Score	Match Length	DB ID	Description	
1	54	100.0	10	9 US-09-894-018-300	Sequence 300, APP
2	54	100.0	10	14 US-10-239-313A-325	Sequence 325, APP
3	54	100.0	10	15 US-10-371-525-159	Sequence 159, APP
4	54	100.0	10	15 US-10-371-609-159	Sequence 159, APP
5	54	100.0	10	15 US-10-371-645-159	Sequence 159, APP
6	54	100.0	10	15 US-10-371-260-159	Sequence 159, APP
7	54	100.0	10	16 US-10-474-960A-603	Sequence 603, APP
8	54	100.0	10	17 US-10-654-601-1917	Sequence 1917, APP
9	54	100.0	10	17 US-10-654-601-2534	Sequence 433, APP
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SUMMARIES					
Result No.	Score	Match Length	DB ID	Description	
1	54	100.0	10	9 US-09-894-018-300	Sequence 300, APP
2	54	100.0	10	14 US-10-239-313A-325	Sequence 325, APP
3	54	100.0	10	15 US-10-371-525-159	Sequence 159, APP
4	54	100.0	10	15 US-10-371-609-159	Sequence 159, APP
5	54	100.0	10	15 US-10-371-645-159	Sequence 159, APP
6	54	100.0	10	15 US-10-371-260-159	Sequence 159, APP
7	54	100.0	10	16 US-10-474-960A-603	Sequence 603, APP
8	54	100.0	10	17 US-10-654-601-1917	Sequence 1917, APP
9	54	100.0	10	17 US-10-654-601-2534	Sequence 433, APP
10	54	100.0	11	17 US-10-654-601-433	Sequence 434, APP
11	54	100.0	11	17 US-10-654-601-433	Sequence 434, APP
SUMMARIES					
Result No.	Score	Match Length	DB ID	Description	
1	54	100.0	10	9 US-09-894-018-300	Sequence 300, APP
2	54	100.0	10	14 US-10-239-313A-325	Sequence 325, APP
3	54	100.0	10	15 US-10-371-525-159	Sequence 159, APP
4	54	100.0	10	15 US-10-371-609-159	Sequence 159, APP
5	54	100.0	10	15 US-10-371-645-159	Sequence 159, APP
6	54	100.0	10	15 US-10-371-260-159	Sequence 159, APP
7	54	100.0	10	16 US-10-474-960A-603	Sequence 603, APP
8	54	100.0	10	17 US-10-654-601-1917	Sequence 1917, APP
9	54	100.0	10	17 US-10-654-601-2534	Sequence 433, APP
10	54	100.0	11	17 US-10-654-601-433	Sequence 434, APP
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Result No.	Score	Match Length	DB ID	Description	
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5	54	100.0	10	15 US-10-371-645-159	Sequence 159, APP
6	54	100.0	10	15 US-10-371-260-159	Sequence 159, APP
7	54	100.0	10	16 US-10-474-960A-603	Sequence 603, APP
8	54	100.0	10	17 US-10-654-601-1917	Sequence 1917, APP
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10	54	100.0	11	17 US-10-654-601-433	Sequence 434, APP
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SUMMARIES					
Result No.	Score	Match Length	DB ID	Description	
1	54	100.0	10	9 US-09-894-018-300	Sequence 300, APP
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4	54	100.0	10	15 US-10-371-609-159	Sequence 159, APP
5	54	100.0	10	15 US-10-371-645-159	Sequence 159, APP
6	54	100.0	10	15 US-10-371-260-159	Sequence 159, APP
7	54	100.0	10	16 US-10-474-960A-603	Sequence 603, APP
8	54	100.0	10	17 US-10-654-601-1917	Sequence 1917, APP
9	54	100.0	10	17 US-10-654-601-2534	Sequence 433, APP
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SUMMARIES					
Result No.	Score	Match Length	DB ID	Description	
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2	54	100.0	10	14 US-10-239-313A-325	Sequence 325, APP
3	54	100.0	10	15 US-10-371-525-159	Sequence 159, APP
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Query Match 100.0%; Score 54; DB 15; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 0.0025;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QAFTFSPTYK 10  
 Db 1 QAFTFSPTYK 10

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RESULT 2  
 US-0-239-313A-325  
 ; Sequence 325 Application US/1023931A  
 ; Publication No. US2003017528A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: KLINGUER - HAMOUR, Christine  
 ; APPLICANT: CORVIA, Nathalie  
 ; APPLICANT: BECK, Alain  
 ; APPLICANT: GOETSCH, Liliane  
 ; TITLE OF INVENTION: MOLECULE OF PHARMACEUTICAL INTEREST COMPRISING AT ITS N-TERMINAL A GLUTAMIC ACID OR A GLUTAMINE IN THE FORM OF A PHYSIOLOGICALLY ACCEPTABLE STRONG ACID  
 ; FILE REFERENCE: 343 727 - US  
 ; CURRENT APPLICATION NUMBER: US/10/239,313A  
 ; CURRENT FILING DATE: 2002-09-19  
 ; PRIOR APPLICATION NUMBER: FR 00/03711  
 ; PRIOR FILING DATE: 2000-03-23  
 ; PRIOR APPLICATION NUMBER: PCT 01/70772  
 ; PRIOR FILING DATE: 2001-03-22  
 ; NUMBER OF SEQ ID NOS: 697  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO: 325  
 ; LENGTH: 10  
 ; TYPE: PRT  
 ; ORGANISM: Hepatitis B virus  
 ; US-10-239-313A-325

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 Best Local Similarity 100.0%; Pred. No. 0.0025;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QAFTFSPTYK 10  
 Db 1 QAFTFSPTYK 10

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RESULT 3  
 US-0-371-525-159  
 ; Sequence 159 Application US/10371525  
 ; Publication No. US20030203869A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Fikes, John D.  
 ; APPLICANT: Hermanson, Gary G.  
 ; APPLICANT: Sette, Alessandro  
 ; APPLICANT: Ishioka, Glenn Y.  
 ; APPLICANT: Livingston, Brian  
 ; APPLICANT: Chesnut, Robert W.  
 ; APPLICANT: Epimmune Inc.  
 ; TITLE OF INVENTION: Expression Vectors for Stimulating an Immune Response and Methods of Using the Same  
 ; FILE REFERENCE: 39963-20022.01  
 ; CURRENT APPLICATION NUMBER: US/10/371,525  
 ; CURRENT FILING DATE: 2003-02-11  
 ; PRIOR APPLICATION NUMBER: US 09/311,784  
 ; PRIOR FILING DATE: 1999-05-13  
 ; PRIOR APPLICATION NUMBER: US 60/085,751  
 ; PRIOR FILING DATE: 1998-05-15  
 ; NUMBER OF SEQ ID NOS: 463  
 ; SOFTWARE: FastSEQ for Windows Version 3.0  
 ; SEQ ID NO: 159  
 ; LENGTH: 10  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: HBV pol 665 (peptide 1090.10)  
 ; US-10-371-525-159

Query Match 100.0%; Score 54; DB 15; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 0.0025;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QAFTFSPTYK 10  
 Db 1 QAFTFSPTYK 10

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RESULT 4  
 US-10-371-069-159  
 ; Sequence 159, Application US/10371069  
 ; Publication No. US20030216342A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: EPIMMUNE INC.  
 ; APPLICANT: Fikes, John D.  
 ; APPLICANT: Hermanson, Gary G.  
 ; APPLICANT: Sette, Alessandro  
 ; APPLICANT: Ishioka, Glenn Y.  
 ; APPLICANT: Livingston, Brian  
 ; APPLICANT: Chesnut, Robert W.  
 ; APPLICANT: Epimmune Inc.  
 ; TITLE OF INVENTION: Expression Vectors for Stimulating an Immune Response and Methods of Using the Same  
 ; FILE REFERENCE: 39963-20022.10  
 ; CURRENT APPLICATION NUMBER: US/10/371,069  
 ; CURRENT FILING DATE: 2003-02-21  
 ; PRIOR APPLICATION NUMBER: US 09/078,904  
 ; PRIOR FILING DATE: 1998-05-13  
 ; PRIOR APPLICATION NUMBER: US 60/085,751  
 ; PRIOR FILING DATE: 1998-05-15  
 ; NUMBER OF SEQ ID NOS: 463  
 ; SOFTWARE: FastSEQ for Windows Version 3.0  
 ; SEQ ID NO: 159  
 ; LENGTH: 10  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: HBV pol 665 (peptide 1090.10)  
 ; US-10-371-069-159

Query Match 100.0%; Score 54; DB 15; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 0.0025;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QAFTFSPTYK 10  
 Db 1 QAFTFSPTYK 10

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RESULT 5  
 US-10-371-645-159  
 ; Sequence 159, Application US/10371645  
 ; Publication No. US20030216343A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: EPIMMUNE INC.  
 ; APPLICANT: Fikes, John D.  
 ; APPLICANT: Hermanson, Gary G.  
 ; APPLICANT: Sette, Alessandro  
 ; APPLICANT: Ishioka, Glenn Y.  
 ; APPLICANT: Livingston, Brian  
 ; APPLICANT: Chesnut, Robert W.  
 ; APPLICANT: Epimmune Inc.  
 ; TITLE OF INVENTION: Expression Vectors for Stimulating an Immune Response and Methods of Using the Same  
 ; FILE REFERENCE: 39963-20022.11  
 ; CURRENT APPLICATION NUMBER: US/10/371,645  
 ; CURRENT FILING DATE: 2003-06-20  
 ; PRIOR APPLICATION NUMBER: US 09/078,904  
 ; PRIOR FILING DATE: 1998-05-13  
 ; PRIOR APPLICATION NUMBER: US 60/085,751  
 ; PRIOR FILING DATE: 1998-05-15  
 ; NUMBER OF SEQ ID NOS: 463  
 ; SOFTWARE: FastSEQ for Windows Version 3.0  
 ; SEQ ID NO: 159  
 ; LENGTH: 10  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: HBV pol 665 (peptide 1090.10)  
 ; US-10-371-645-159

SOFTWARE: FastSEQ for Windows Version 3.0  
SEQ ID NO: 159  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: HBV pol 665 (peptide 1090.10)  
US-10-371-645-159

Query Match 100.0%; Score 54; DB 15; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.0025;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
SEQ ID NO: 300  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Artificial sequence  
FEATURE:  
OTHER INFORMATION: Sequence for epitope  
US-10-474-960A-300

RESULT 6  
US-10-371-260-159  
Sequence 159, Application US/10371260  
Publication No. US20030220285A1  
GENERAL INFORMATION:  
APPLICANT: EPIMMUNE Inc.  
APPLICANT: Sette, Alessandro  
APPLICANT: Livingston, Brian  
APPLICANT: Fikes, John D.  
APPLICANT: Hermanson, Gary G.  
APPLICANT: Ishioka, Glenn Y.  
APPLICANT: Chestnut, Robert W.  
APPLICANT: Epimmune Inc.  
APPLICANT: Livingston, Brian  
TITLE OF INVENTION: Expression Vectors for Stimulating an Immune Response and Methods of Using the Same  
FILE REFERENCE: 39963-20022.13  
CURRENT APPLICATION NUMBER: US/10/371.260  
CURRENT FILING DATE: 2003-02-21  
PRIOR APPLICATION NUMBER: US 09-078,904  
PRIOR FILING DATE: 1998-05-13  
PRIOR APPLICATION NUMBER: US 60/085,751  
PRIOR FILING DATE: 1998-05-15  
NUMBER OF SEQ ID NOS: 463  
SOFTWARE: FastSEQ for Windows Version 3.0  
SEQ ID NO: 159  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: HBV pol 665 (peptide 1090.10)  
US-10-371-260-159

Query Match 100.0%; Score 54; DB 15; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.0025;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
SEQ ID NO: 300  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Artificial sequence  
FEATURE:  
OTHER INFORMATION: Sequence for epitope  
US-10-474-960A-300

RESULT 7  
US-10-474-960A-300  
Sequence 300, Application US/10474960A  
Publication No. US2004048113A1  
GENERAL INFORMATION:  
APPLICANT: Sette, Alessandro  
APPLICANT: Livingston, Brian  
APPLICANT: Baker, Denise  
APPLICANT: Newman, Mark  
APPLICANT: Brown, David  
TITLE OF INVENTION: Methods and System for Optimizing Multi-epitope Nucleic Acid Constructs and Peptides Encoded Thereby  
FILE REFERENCE: 2060-0320004  
NUMBER OF SEQ ID NOS: 2579  
SOFTWARE: FastSEQ for Windows Version 4.0  
SEQ ID NO: 603  
LENGTH: 10  
TYPE: PRT

; ORGANISM: Orthohepadnaviridae hepatitis B virus  
US-10-654-601-603

Query Match Score 54; DB 17; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.0025; Indels 0; Gaps 0;  
Matches 10; Conservative 0; Mismatches 0;

QY 1 QAFTESPTYK 10  
Db 1 QAFTESPTYK 10

RESULT 9 ; Publication No. US20050063983A1  
; GENERAL INFORMATION:  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Sidney, John  
; APPLICANT: Southwood, Scott  
; APPLICANT: Vitiello, Maria A.  
; APPLICANT: Livingston, Brian D.  
; APPLICANT: Celis, Esteban  
; APPLICANT: Kubo, Ralph T.  
; APPLICANT: Grey, Howard M.  
; APPLICANT: Chesnut, Robert  
; APPLICANT: Epimmune Inc.  
; TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B Virus  
; FILE REFERENCE: 2060.006007  
; CURRENT APPLICATION NUMBER: US/10/654,601  
; CURRENT FILING DATE: 2003-09-04  
; PRIOR APPLICATION NUMBER: US/09/239,043  
; PRIOR FILING DATE: 1999-01-27  
; PRIOR APPLICATION NUMBER: US/09/189,702  
; PRIOR FILING DATE: 1998-11-10  
; PRIOR APPLICATION NUMBER: US/08/978,291  
; PRIOR FILING DATE: 1997-11-25  
; PRIOR APPLICATION NUMBER: US/08/820,360  
; PRIOR FILING DATE: 1997-03-12  
; PRIOR APPLICATION NUMBER: US/60/013,363  
; PRIOR FILING DATE: 1996-03-13  
; PRIOR APPLICATION NUMBER: US/08/461,603  
; PRIOR FILING DATE: 1995-06-05  
; PRIOR APPLICATION NUMBER: US/08/347,610  
; PRIOR FILING DATE: 1994-12-01  
; PRIOR APPLICATION NUMBER: US/08/344,824  
; PRIOR FILING DATE: 1994-11-23  
; PRIOR APPLICATION NUMBER: US/08/278,634  
; PRIOR FILING DATE: 1994-07-21  
; PRIOR APPLICATION NUMBER: US/08/205,713  
; PRIOR FILING DATE: 1994-03-04  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 2579  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 2534  
; TYPE: PRT  
; ORGANISM: Orthohepadnaviridae hepatitis B virus  
US-10-654-601-2534

Query Match Score 54; DB 17; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.0025; Indels 0; Gaps 0;  
Matches 10; Conservative 0; Mismatches 0;

QY 1 QAFTESPTYK 10  
Db 1 QAFTESPTYK 10

RESULT 11 ; Sequence 43, Application US/10654601  
; Publication No. US20050063983A1  
; GENERAL INFORMATION:  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Sidney, John  
; APPLICANT: Southwood, Scott  
; APPLICANT: Vitiello, Maria A.  
; APPLICANT: Livingston, Brian D.  
; APPLICANT: Celis, Esteban  
; APPLICANT: Kubo, Ralph T.  
; APPLICANT: Grey, Howard M.  
; APPLICANT: Chesnut, Robert  
; APPLICANT: Epimmune Inc.  
; TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B Virus  
; FILE REFERENCE: 2060.006007

; Publication No. US20050063983A1  
; GENERAL INFORMATION:  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Sidney, John  
; APPLICANT: Southwood, Scott  
; APPLICANT: Vitiello, Maria A.  
; APPLICANT: Livingston, Brian D.  
; APPLICANT: Celis, Esteban  
; APPLICANT: Kubo, Ralph T.  
; APPLICANT: Grey, Howard M.  
; APPLICANT: Chesnut, Robert  
; APPLICANT: Epimmune Inc.

Query Match Score 54; DB 17; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.0025; Indels 0; Gaps 0;  
Matches 10; Conservative 0; Mismatches 0;

QY 1 QAFTESPTYK 10  
Db 1 QAFTESPTYK 10

RESULT 10 ; Sequence 2534, Application US/10654601  
; Publication No. US/10654601  
; GENERAL INFORMATION:  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Sidney, John  
; APPLICANT: Southwood, Scott  
; APPLICANT: Vitiello, Maria A.  
; APPLICANT: Livingston, Brian D.  
; APPLICANT: Celis, Esteban  
; APPLICANT: Kubo, Ralph T.  
; APPLICANT: Grey, Howard M.  
; APPLICANT: Chesnut, Robert  
; APPLICANT: Epimmune Inc.  
; TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B Virus  
; FILE REFERENCE: 2060.006007

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CURRENT APPLICATION NUMBER: US/10/654,601
PRIOR APPLICATION NUMBER: US/09/239,043
PRIOR FILING DATE: 2003-09-04
PRIOR APPLICATION NUMBER: US/09/239,043
PRIOR FILING DATE: 1999-01-27
PRIOR APPLICATION NUMBER: US/09/189,702
PRIOR FILING DATE: 1998-11-10
PRIOR APPLICATION NUMBER: US/08/978,291
PRIOR FILING DATE: 1997-11-25
PRIOR APPLICATION NUMBER: US/08/820,360
PRIOR FILING DATE: 1997-03-12
PRIOR APPLICATION NUMBER: US/08/820,360
PRIOR FILING DATE: 1996-03-13
PRIOR APPLICATION NUMBER: US/08/461,603
PRIOR FILING DATE: 1995-06-05
PRIOR APPLICATION NUMBER: US/08/347,610
PRIOR FILING DATE: 1994-12-01
PRIOR APPLICATION NUMBER: US/08/344,824
PRIOR FILING DATE: 1994-11-23
PRIOR APPLICATION NUMBER: US/08/278,634
PRIOR FILING DATE: 1994-07-21
PRIOR APPLICATION NUMBER: US/08/205,713
PRIOR FILING DATE: 1994-03-04
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 2579
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO: 433
LENGTH: 11
; TYPE: PRT
; ORGANISM: Orthopadnaviridae hepatitis B virus
US-10-654-601-433

Query Match
Best Local Similarity 100.0%; Score 54; DB 17; Length 11;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 QAFIFSPYK 10
Db 1 QAFIFSPYK 10

RESULT 12
US-10-103-395-266
; Sequence 266, Application US/10103395
; GENERAL INFORMATION:
; APPLICANT: EPIMMUNE, Inc.
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; TITLE OF INVENTION: IDENTIFICATION OF BROADLY REACTIVE DR
; TITLE OF INVENTION: RESTRICTED EPITOPE
; FILE REFERENCE: 39961-20016.01
; CURRENT APPLICATION NUMBER: US/10/103,395
; CURRENT FILING DATE: 2003-01-03
; PRIOR APPLICATION NUMBER: US/09/009,953
; PRIOR FILING DATE: 1998-01-21
; PRIOR APPLICATION NUMBER: PCT/US98/01373
; PRIOR FILING DATE: 1998-01-23
; PRIOR APPLICATION NUMBER: US/00/036,713
; PRIOR FILING DATE: 1997-01-23
; PRIOR APPLICATION NUMBER: US/00/037,432
; PRIOR FILING DATE: 1997-02-07
; NUMBER OF SEQ ID NOS: 274
; SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO: 266
LENGTH: 15
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-103-395-266

Query Match
Best Local Similarity 100.0%; Score 54; DB 13; Length 15;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 QAFIFSPYK 10
Db 2 QAFIFSPYK 11

RESULT 13
US-10-371-525-137
; Sequence 137, Application US/10371525
; GENERAL INFORMATION:
; APPLICANT: Fikes, John D.
; APPLICANT: Sette, Alessandro
; APPLICANT: Ishioka, Glenn Y.
; APPLICANT: Livingston, Brian
; APPLICANT: Cheanut, Robert W.
; APPLICANT: EPIMMUNE Inc.
; TITLE OF INVENTION: Expression Vectors for Stimulating an
; Immune Response and Methods of Using the Same
; FILE REFERENCE: 39963-20022.01
; CURRENT APPLICATION NUMBER: US/10/371,525
; CURRENT FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: US/09/311,784
; PRIOR FILING DATE: 1999-05-13
; PRIOR APPLICATION NUMBER: US/60/085,751
; PRIOR FILING DATE: 1998-05-15
; NUMBER OF SEQ ID NOS: 463
; SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO: 137
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HBV POL 661 (peptide 1298.0.6)
US-10-371-525-137

Query Match
Best Local Similarity 100.0%; Score 54; DB 15; Length 15;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 QAFIFSPYK 10
Db 2 QAFIFSPYK 11

RESULT 14
US-10-371-069-137
; Sequence 137, Application US/10371069
; GENERAL INFORMATION:
; APPLICANT: EPIMMUNE Inc.
; APPLICANT: Fikes, John D.
; APPLICANT: Sette, Alessandro
; APPLICANT: Ishioka, Glenn Y.
; APPLICANT: Livingston, Brian
; APPLICANT: Cheanut, Robert W.
; APPLICANT: EPIMMUNE Inc.
; TITLE OF INVENTION: Expression Vectors for Stimulating an
; Immune Response and Methods of Using the Same
; FILE REFERENCE: 39963-20022.10
; CURRENT APPLICATION NUMBER: US/10/371,069
; CURRENT FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: US/09/078,904
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: US/60/085,751
; PRIOR FILING DATE: 1998-05-15
; NUMBER OF SEQ ID NOS: 463
; SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO: 137
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-103-395-266

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HBV POL 661 (peptide 1298.06)
US-10-371-645-137

Query Match          100.0%;  Score 54;  DB 15;
Best Local Similarity 100.0%;  Pred. No. 0.0038;
Matches 10;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

QY      1 QAFTFSPTK 10
Db      2 QAFTFSPTK 11

RESULT 15
US-10-371-645-137
; Sequence 137; Application US/10371645
; Publication No. US20030216343A1
; GENERAL INFORMATION:
; APPLICANT: EPIMMUNE INC.
; APPLICANT: Fikes, John D.
; APPLICANT: Hermanson, Gary G.
; APPLICANT: Sette, Alessandro
; APPLICANT: Ishioka, Glenn Y.
; APPLICANT: Livingston, Brian
; APPLICANT: Chesnut, Robert W.
; APPLICANT: Epimmune, Inc.
; TITLE OF INVENTION: Expression Vectors for Stimulating an
; TITLE OF INVENTION: Immune Response and Methods of Using the Same
; FILE REFERENCE: 39963-20022.11
; CURRENT APPLICATION NUMBER: US/10/371,645
; CURRENT FILING DATE: 2003-06-20
; PRIOR APPLICATION NUMBER: US/09/078,904
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: US 60/085,751
; PRIOR FILING DATE: 1998-05-15
; NUMBER OF SEQ ID NOS: 463
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 137
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HBV POL 661 (peptide 1298.06)
US-10-371-645-137

Query Match          100.0%;  Score 54;  DB 15;
Best Local Similarity 100.0%;  Pred. No. 0.0038;
Matches 10;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

QY      1 QAFTFSPTK 10
Db      2 QAFTFSPTK 11

```

Search completed: June 28, 2005, 09:18:52  
 Job time : 159 secs